

## ABSTRACT OF THE DISCLOSURE

An adaptive antenna array system includes an antenna array having a plurality of antenna elements, the antenna array synthesizing received signals received by each of the antenna elements by weighting them according to a weighting coefficient and outputting  
5 a synthesized signal, a weighting coefficient calculation unit for calculating the weighting coefficient of received signals by adaptive control, an evaluation unit for evaluating the convergence status of adaptive control by the weighting coefficient calculation unit, and a control unit for controlling the operation of adaptive control by the weighting coefficient calculation unit corresponding to the results of evaluation of  
10 convergence status by the evaluation unit.